

Agilent Ref: 10004190-1
United States Application Serial No. 09/846,058

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 4, 27, 28, 29, 35 and 37, cancel claims 10-23 and add new claims 39-46 as shown below. A complete listing of the claims, including their current status, is provided below.

1. **(Currently amended)** A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity of a first direction and a second direction across a substrate to identify a first direction having higher height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) placing the different chemical moieties on the substrate so as to provide features thereon along rows more closely aligned with the first direction than the second direction, in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

2. (Original) A method according to claim 1 wherein the different chemical moieties are biopolymers.

3. (Original) A method according to claim 1 wherein the determining comprises measuring the thickness of the substrate at different positions.

4. **(Currently amended)** A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

(b) receiving from a remote location, an identification of a first direction across the substrate surface along which the substrate surface has a higher height uniformity than along a second direction across the substrate, wherein said first and second directions are planar to said substrate;

(c) placing the different chemical moieties on the substrate so as to provide features thereon along rows more closely aligned with the first direction than the second direction,

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in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

5. (Previously presented) A method according to claim 1 additionally comprising associating with the array an identification as to the direction of the rows and forwarding the array and the identification to a remote location.

6. (Original) A method according to claim 5 wherein the forwarding of the identification comprises applying an identifier on the substrate or a housing for the substrate, and saving the identification in a memory in association with the identifier.

7. (Original) A method according to claim 5 wherein the identification comprises reference to a shape characteristic of the substrate or a housing for the substrate.

8. (Previously presented) A method according to claim 1 wherein the substrate is rectangular and the first and second directions are perpendicular to each other.

9. (Original) A method according to claim 1 wherein the rows are parallel with the first direction.

10-26. (Cancelled)

27. (**Currently amended**) A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity of a first direction and a second direction across a planar substrate to identify a first direction having higher height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) placing the different chemical moieties on the substrate so as to provide features thereon along rows more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

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28. **(Currently amended)** A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity of a first direction and a second direction across a substrate to identify a first direction having higher height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) employing a pulse jet printer to deposit different chemical moieties on the substrate so as to provide features thereon along rows more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

29. **(Currently amended)** ~~The method of claim 4, wherein said identification~~ A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

(b) receiving from a remote location an identification that indicates the direction in which the substrate was drawn; and

(c) placing the different chemical moieties on the substrate so as to provide features thereon along rows aligned with said direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

30. (Previously presented) The method of claim 5, wherein said identification is a communicated to said remote location.

31. (Previously presented) The method according to claim 29, wherein the rows are parallel to the direction in which the substrate was drawn.

32. (Previously presented) The method of claim 4, wherein said identification is directly associated with the substrate or packaging thereof.

33. (Previously presented) The method of claim 4, wherein said identification references a

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shape characteristic of the substrate or housing thereof.

34. (Previously presented) The method of claim 4, wherein said identification is associated with the substrate via an identifier on said substrate, or housing thereof.

35. (Currently amended) A method of claim 29 ~~claim 4~~, wherein said identification comprises reference to a shape characteristic of the substrate or housing thereof.

36. (Previously presented) The method of claim 4, wherein said identification is communicated from said remote location.

37. (Currently amended) The method of claim 36, wherein said identification is communicated [is] via electronic media.

38. (Previously presented) The method of claim 4, wherein said identification is communicated from a computer memory, in response to providing an identifier of the substrate.

39. (New) The method of claim 29, wherein said identification is associated with the substrate or packaging thereof.

40. (New) The method of claim 29, wherein said identification references a shape characteristic of the substrate or housing thereof.

41. (New) The method of claim 29, wherein said identification is associated with the substrate via an identifier on said substrate, or housing thereof.

42. (New) The method of claim 29, wherein said identification is communicated from said remote location.

43. (New) The method of claim 42, wherein said identification is communicated via electronic media.

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44. (New) The method of claim 42, wherein said identification is communicated from a computer memory, in response to providing an identifier of the substrate.

45. (New) A method of fabricating an array of multiple features of different chemical moieties on a surface of a substrate, comprising:

(a) comparing height uniformity of a first direction and a second direction across a substrate to identify a first direction having higher height uniformity than a second direction, wherein said first and second directions are planar to said substrate; and

(b) placing the different chemical moieties in a line on the substrate so as to provide a row of distinct features that is more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.

46. (New) A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, comprising:

(a) receiving the substrate from a remote location;

(b) receiving from a remote location, an identification of a first direction across the substrate surface along which the substrate surface has a higher height uniformity than along a second direction across the substrate, wherein said first and second directions are planar to said substrate;

(c) placing the different chemical moieties in a line on the substrate so as to provide a row of distinct features that is more closely aligned with the first direction than the second direction,

in order to fabricate an array of multiple features of different chemical moieties on a substrate surface.